

Fig. 1

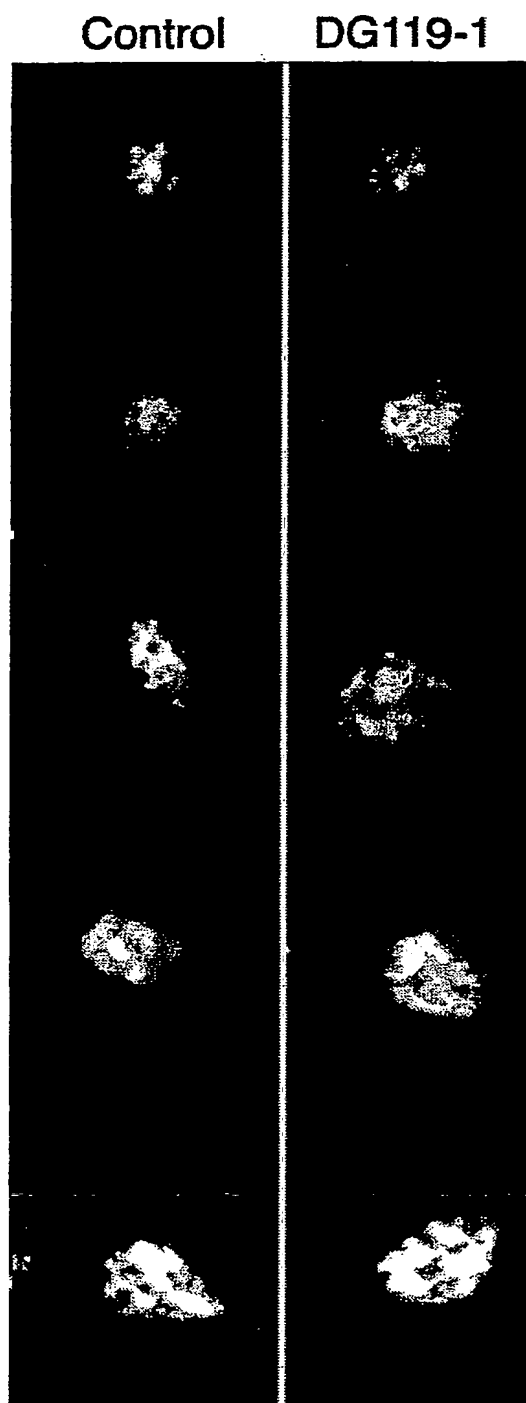


Fig. 2

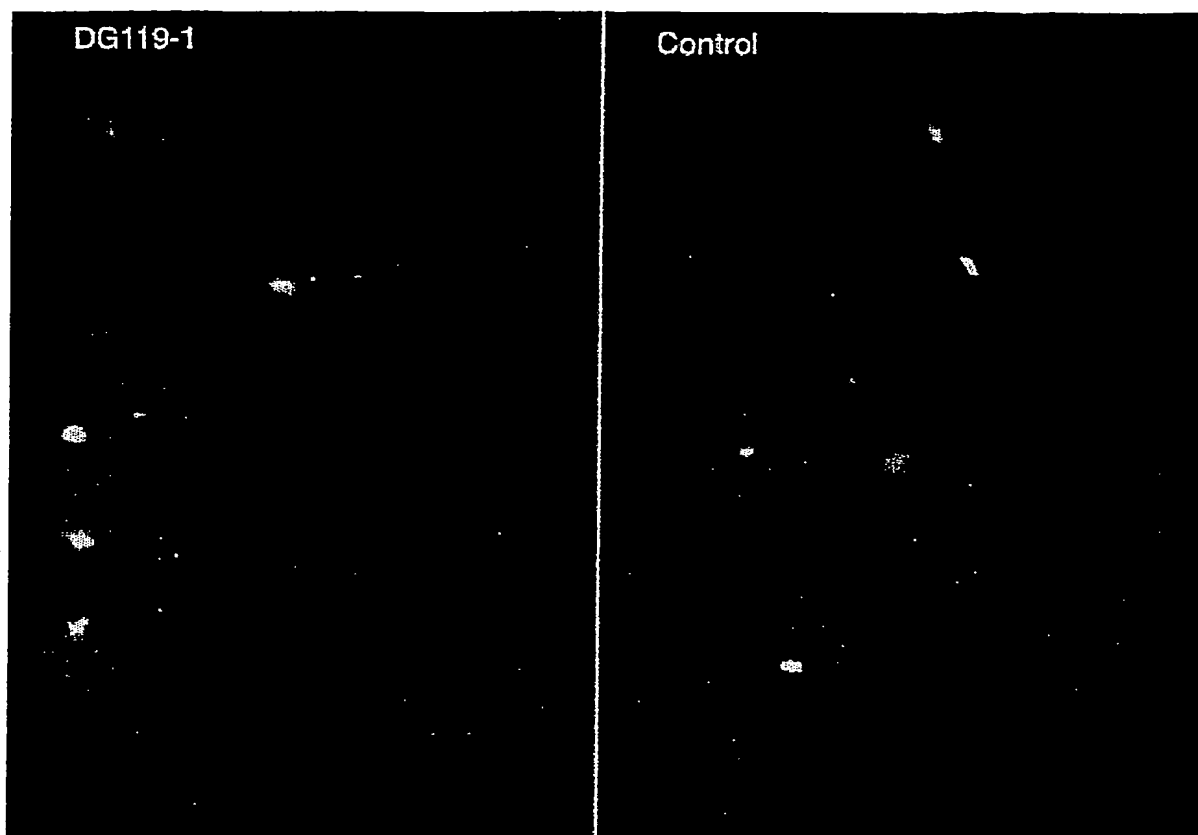


Fig. 3

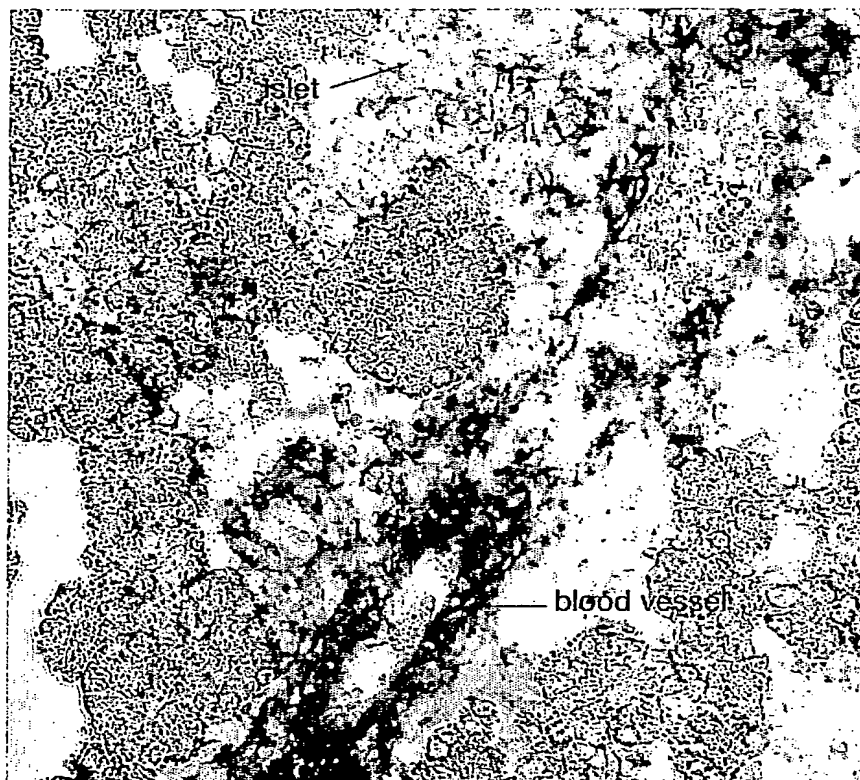


Fig. 4A

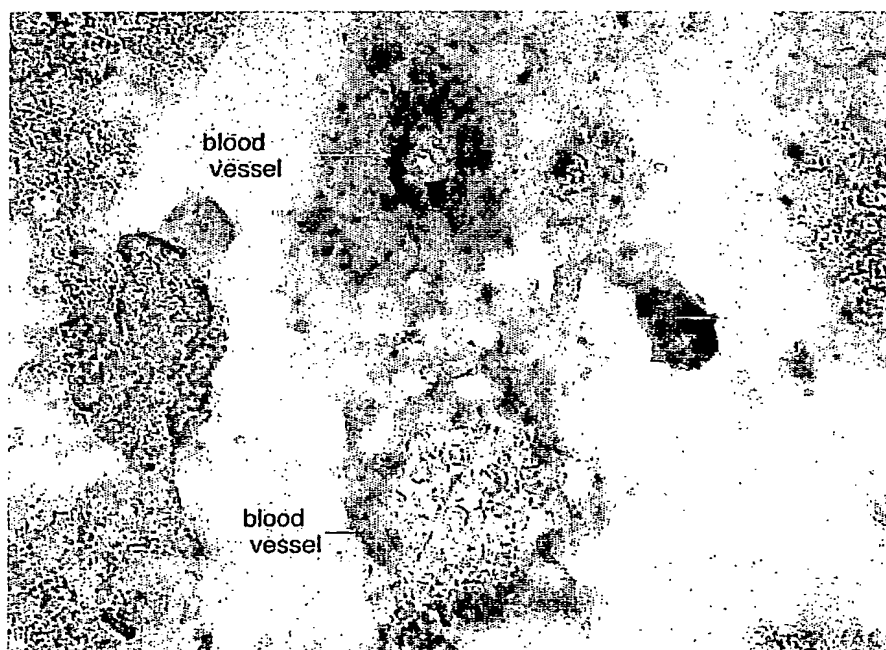


Fig. 4B

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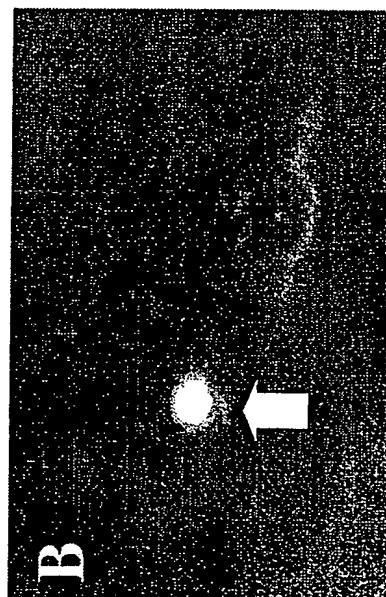
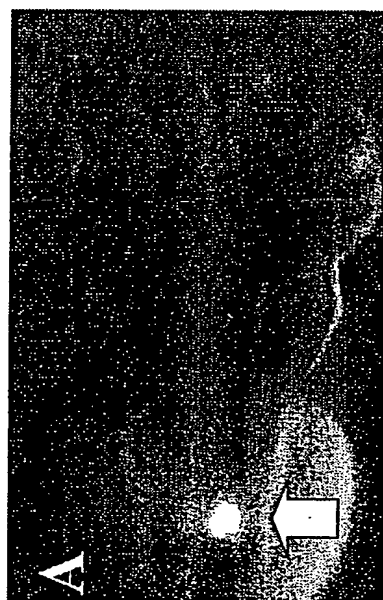
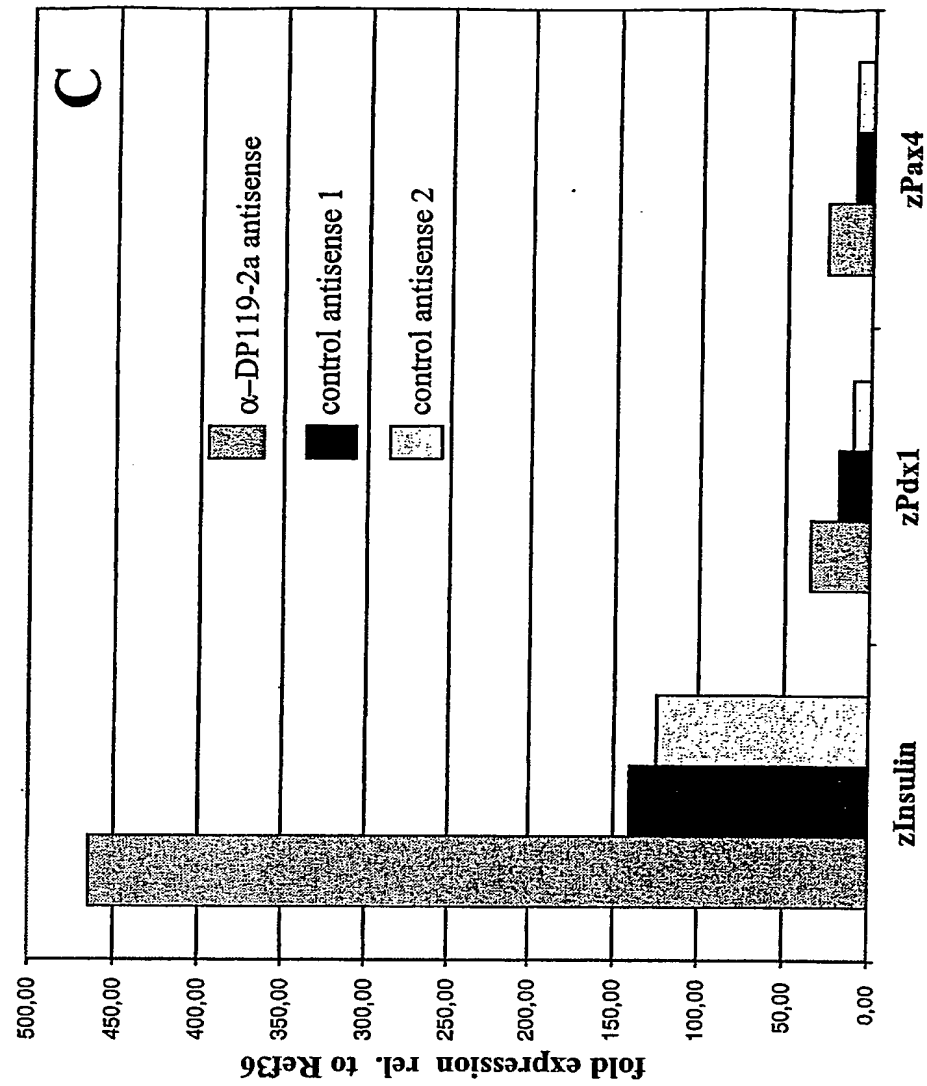


Fig. 5

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1 MTEMKIWCVL LMAFALTSAA PKSHLRLEEK TKDNNDTLQV EIDNQEHILS QLLGDYDKVK
61 ALSEGSDCGC KCVVRPLSAS ACQRIREGHA TPQDFYTVET ITSGPHCKCA CIAPPSALNP
121 CEGDFRLKKL RQAGKDNIKL STILELLEGS FYGMDLLKLH SVTTKILDRM DTIEKMVLNN
181 QTEEKLNTIS TSPNPQLSTS SPTTLPSTVIQ EKSTSLRQON DEAAAFQHOME SKYEKFKVGD
241 ILNSGSDLNK ATTALQEQEQ QGRKKQPKIT VRGITYYRSD PVDSEKSEKN LKETSSASSVT
301 QTGALIKEHL KASTQSTLNT LTPSPTSHSN ALTVTESSVG INAHKGEVTT IVMTASVTGS
361 KTDSVTDLTQ LSPRVRETLT TTRTTTKTAT TSQPVKRKYS ISWDEEEEA VPEQVEEKA
421 VKPVVEDKVG EEPQRKPGTA HHQAKTISTV KQQIKFSLGM CKDTLATISE PITHNTYGRN
481 EGAWMKDPLD QDDKIYVTNY YYGNNLLEFR NIDVFKQGRF TNSYKLPYNW IGTGHVVKYK
541 AFYYNRAFSR DIIKFDLRLR YVAAWTMLHD AVFENDDVSS WRWRGNSDMD LAIDESGLWV
601 IYPALDDEGF LQEVIVLSRL NPTDLMSKRE TTWRTGLRRN RYGNCFIVCG VLYATDSYNQ
661 QDTNLSYAFD THTNTQVIPH LPFSNNYTYV TQIDYNPKER VLYAWDNHGHQ VTYNVQFAY

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Fig. 6A

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1 MGLLLYIFCC VFCLTRANVE QQATDNTDNR ATLEDEMNDQ ENILTQLIGD YDKVKTLSEG
61 SDCQCKCVVR PMSRSACKRI EEAQAKIEDF YTVEPVTAGP NCKKACIAP PSALNPCEGD
121 FRFKKLQKTG QYDIKLSNIM DLLEERVDNI EKGEKGQKG ARSNQRQEK KRLSVVCWSL
181 HCRRTQORLL LTLRYRCKSV LEPSLQKNAA AAFATEVQOM QOFIPDQRKY EEKFGVGNQGP
241 SKPVLKSKS EGQEEQHKPA KTKADAKNMS LRSMTFYKAN RMEDSEGEER DLII EDQLHK
301 QGLNTPVTTT EATVTVTQST TINLNTQNFT TARMSNVTKQ TQGQSVKAMM SSTI'TTERPT
361 MPTSTTSTST MTPGTNTTTI ATPLVVPKQL ASVTVGQVSN SYKLPYNWIG TGHVVSYSF
421 FYNRAFSRDI IRFDLRLRYV AAWTTLHDAI LEEEEEAPWTW GGHSDIDFSV DESGLWLVYP
481 ALDDEGFHQE VIILSKLRAS DLQKEKSWRT GLRRNYGNC FVICGVLYAV DSFERTHANI
541 SYAFDTHHT OMIPRLPFIN NYTYTTQIDY NPKERMLYAW DNHGHQVTYDV IFAY

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Fig. 6B

```

1 MWRIVELVAC LLMMSSHVSS QSKIFGEEQV RMTSEGSDCR CKCIMRPLTR DACARLRTGS
61 VRVEDFYTVE TVSSGADCKC SCTAPPSSLN PCENEWKREK LKKQAPELLK LQSMVDLLEG
121 TLFSDMLLKV HSYINKVVSQ MNNLEE

```

Fig. 6C

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1 MWIYASVLTY LLLLTRDARS LSKIFGEPEP VKMISEGSDC RCKCVMRPLS IEACSRLRDG
61 SLRVDDFYTV ETVSSGSDCK CSCTAPPSSL NPCENEWRTE KLXKQAPELL KLHSMVDLLE
121 GTLYSMDLMK VHAYMNKVVS QMNTLEEVM TIKTNLTRENE FVRDSVNL NQKRYENYS
181 DIMVSIKKEI SSLGLQLLQK DAASDSKAQV GTESKKSKEA IKPPNKKPPA VKPPPKQPK
241 KPVKPKKEAP AKAAPAKPD PTTTKTSVH QTGVIRGITY YKASKSE

```

Fig. 6D

| | | | | | | | | |
|----------|-------|-------|---|-------|-------|-------|-------|-------|
| | | | 10 | 20 | 30 | 40 | 50 | 60 |
| ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-1 | Mm | | -----MAYPLPLVLCFALVVAQVWGSTTPTGTSEPPDVQIVTEPTEDDILQNEADNQEN | | | | | |
| DG119-1 | Hs | | -----MAKPRLLVLVYFALIVVPAWVSIVLTGTSEPPDAQTVAPAEDETQNEADNQEN | | | | | |
| DG119-1a | Dr | | -----MTEMKWKCVLLMAFALTSAAPKS-----HLRLEKTKDNNDTLQVEIDNQEH | | | | | |
| DG119-1b | Dr | | -----MGLLLYIFCCVFCFCLTRAN-----VEQQTADNTDNRRATLEDEMDNQEN | | | | | |
| DG119-2a | Dr | | -----MWRIVELVACLMMSS-----HVS | | | | | |
| DG119-2b | Dr | | -----MWIYASVLTYLLLLTR-----DAR | | | | | |
| DG119-2 | Mm | | MEAAAVLPRYLQLRLLLVLLLVLLRAG-----PFW | | | | | |
| DG119-2 | Hs | | -----MAAALPPRPLLPLVLLVLLSGR-----PTR | | | | | |
| | | | 70 | 80 | 90 | 100 | 110 | 120 |
| ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-1 | Mm | | VLSQLLGDYDKVKAVSEGSDCQCKCVVRPLGRDACQRINQASRKEDFYTVETITSGSSC | | | | | |
| DG119-1 | Hs | | VLSQLLGDYDKVKAMSEGSDCQCKCVVRPLGRDACQRINAGASRKEDFYTVETITSGSSC | | | | | |
| DG119-1a | Dr | | ILSQLLGDYDKVKALSEGSDCQCKCVVRPLSASACQRIREGHATPDQDFYTVETITSGPHC | | | | | |
| DG119-1b | Dr | | ILTQLIGDYDKVKTLESEGSDCQCKCVVRPMSRSACKRIEAAQAKIEDFYTVETVETAGPNC | | | | | |
| DG119-2a | Dr | | SQSKIFGE-EQVRMTSEGSDCRCKCIMRPLTRDACARLTGTSVRVEDFYTVETVSSGADC | | | | | |
| DG119-2b | Dr | | SLSKIFGEPEPVKMISEGSDCRCKCVMRPLSIEACSRRLRDSLRVDDFYTVETVSSGSDC | | | | | |
| DG119-2 | Mm | | PDSKVFSDDLQVVRMTSEGSDCRCKCIMRPLSKDACSRRVSRGRARVEDFYTVETVSSGADC | | | | | |
| DG119-2 | Hs | | ADSKVFGDDLQVVRMTSEGSDCRCKCIMRPLSKDACSRRVSRGRARVEDFYTVETVSSGTDCC | | | | | |
| | | | -----Cystein rich domain----- | | | | | |
| | | | 130 | 140 | 150 | 160 | 170 | 180 |
| ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-1 | Mm | | K-CACVAPPSAVNPCEGDFRLQKLREADSRDLK----- | | | | | |
| DG119-1 | Hs | | K-CACVAPPSALNPCEGDFRLQKLREADSQDLKVGPGMQCLGREGTFEIHKSGKAMVED | | | | | |
| DG119-1a | Dr | | K-CACIAPPSALNPCEGDFRLKKLRQAGKDNK----- | | | | | |
| DG119-1b | Dr | | KKACIAPPSALNPCEGDFRFLKQKTGQYDIK----- | | | | | |
| DG119-2a | Dr | | K-CSCTAPPSSSLNPCENEWKREKLKKQAPPELLKQ----- | | | | | |
| DG119-2b | Dr | | K-CSCTAPPSSSLNPCENEWRTKLLKKQAPPELLKLH----- | | | | | |
| DG119-2 | Mm | | R-CSCTAPPSSSLNPCENEWKMEKLKKQAPPELLKQ----- | | | | | |
| DG119-2 | Hs | | R-CSCTAPPSSSLNPCENEWKMEKLKKQAPPELLKS----- | | | | | |
| | | | -----Cystein rich domain----- | | | | | |
| | | | 190 | 200 | 210 | 220 | 230 | 240 |
| ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-1 | Mm | | -----SKPFEEGLSHFLTQTFRKAECTYTIVLAYIPVTNVFLTATTSQFLASGFFVEPPLSTIID | | | | | |
| DG119-1 | Hs | | -----LSTIID | | | | | |
| DG119-1a | Dr | | -----LSTILE | | | | | |
| DG119-1b | Dr | | -----LSNIMD | | | | | |
| DG119-2a | Dr | | -----SMVD | | | | | |
| DG119-2b | Dr | | -----SMVD | | | | | |
| DG119-2 | Mm | | -----SMVD | | | | | |
| DG119-2 | Hs | | ----- | | | | | |
| | | | 250 | 260 | 270 | 280 | 290 | 300 |
| ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-1 | Mm | | MLEGAFYGLDLLKLHSVTTKLVG-----RVDKLEE | | | | | |
| DG119-1 | Hs | | MLEGAFYGLDLLKLHSVTTKLVG RVDKLEEMLEGAFYGLDLLKLHSVTTKLVG RVDKLEE | | | | | |
| DG119-1a | Dr | | LLEGFSFYGM DLLKLH SVTTKIL-----RMDTIEK | | | | | |
| DG119-1b | Dr | | LLEGFSFYGM DLLKLH SVTTKLE-----RVDNIEK | | | | | |
| DG119-2a | Dr | | LLEGT LFSMDLLKVH SYINKVVS-----QMNNLEE | | | | | |
| DG119-2b | Dr | | LLEGT LYSMDLMKVHAY MNKVVS-----QMNTLEE | | | | | |
| DG119-2 | Mm | | LLEGALYSMDLMKVHAY IQKVAS-----QMNTLEE | | | | | |
| DG119-2 | Hs | | ----- | | | | | |
| | | | 310 | 320 | 330 | 340 | 350 | 360 |
| ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-1 | Mm | | E--VSKNLTKE NEQIKEDVEEIRTELN-KRGKENCSDNTLESMPDIRSALQRDAAA----- | | | | | |
| DG119-1 | Hs | | E--VSKNLTKE NEQIKEDMEERTEMN-KRGKENCSENI LDSMPDIRSALQRDAAA----- | | | | | |
| DG119-1a | Dr | | M--VLNNQTEEKLNTISTSPNP-----QLSTSS-----PTTLP SVIQEKST----- | | | | | |
| DG119-1b | Dr | | S--FSGNLTKEKVS VKGEKGQG-----KGARSNQRQEKKRLSVLEPSLQKNAAA----- | | | | | |
| DG119-2a | Dr | | ----- | | | | | |
| DG119-2b | Dr | | | | | | | |

| | | | | | | | | |
|----------|----|--|--------------------------------------|-------|-------|-------|-------|-------|
| | | | 370 | 380 | 390 | 400 | 410 | 420 |
| DG119-1 | Mm | | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-1 | Hs | | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-1a | Dr | | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-1b | Dr | | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-2a | Dr | | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-2b | Dr | | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-2 | Mm | | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-2 | Hs | | ----- | ----- | ----- | ----- | ----- | ----- |
| | | | 430 | 440 | 450 | 460 | 470 | 480 |
| DG119-1 | Mm | | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-1 | Hs | | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-1a | Dr | | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-1b | Dr | | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-2a | Dr | | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-2b | Dr | | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-2 | Mm | | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-2 | Hs | | ----- | ----- | ----- | ----- | ----- | ----- |
| | | | 490 | 500 | 510 | 520 | 530 | 540 |
| DG119-1 | Mm | | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-1 | Hs | | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-1a | Dr | | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-1b | Dr | | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-2a | Dr | | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-2b | Dr | | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-2 | Mm | | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-2 | Hs | | ----- | ----- | ----- | ----- | ----- | ----- |
| | | | 550 | 560 | 570 | 580 | 590 | 600 |
| DG119-1 | Mm | | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-1 | Hs | | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-1a | Dr | | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-1b | Dr | | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-2a | Dr | | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-2b | Dr | | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-2 | Mm | | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-2 | Hs | | ----- | ----- | ----- | ----- | ----- | ----- |
| | | | 610 | 620 | 630 | 640 | 650 | 660 |
| DG119-1 | Mm | | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-1 | Hs | | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-1a | Dr | | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-1b | Dr | | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-2a | Dr | | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-2b | Dr | | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-2 | Mm | | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-2 | Hs | | ----- | ----- | ----- | ----- | ----- | ----- |
| | | | 670 | 680 | 690 | 700 | 710 | 720 |
| | | | 730 | 740 | 750 | 760 | 770 | 780 |
| DG119-1 | Mm | | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-1 | Hs | | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-1a | Dr | | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-1b | Dr | | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-2a | Dr | | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-2b | Dr | | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-2 | Mm | | ----- | ----- | ----- | ----- | ----- | ----- |
| DG119-2 | Hs | | ----- | ----- | ----- | ----- | ----- | ----- |
| | | | ----- Olfactomedin-like domain ----- | | | | | |

Fig. 7 (cont.)

Fig. 7 (cont.)

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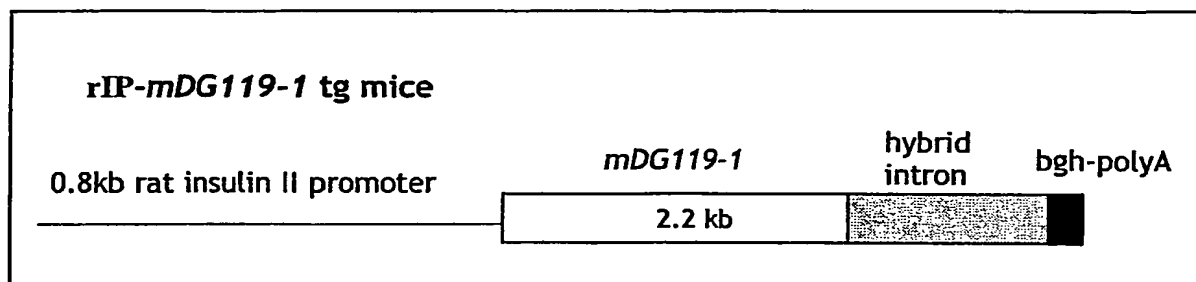


Fig. 8A

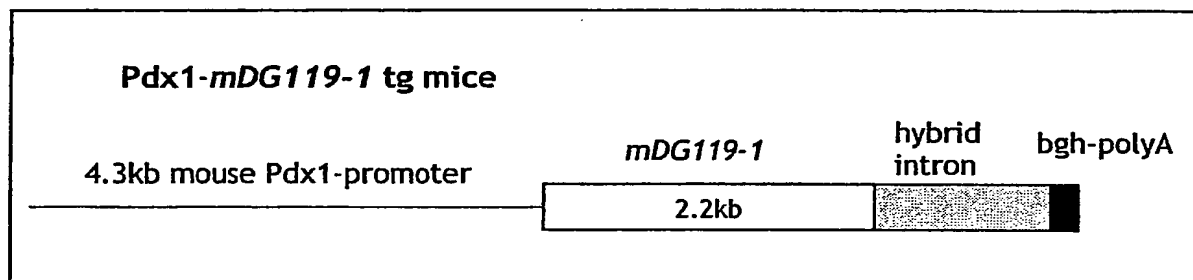


Fig. 8B

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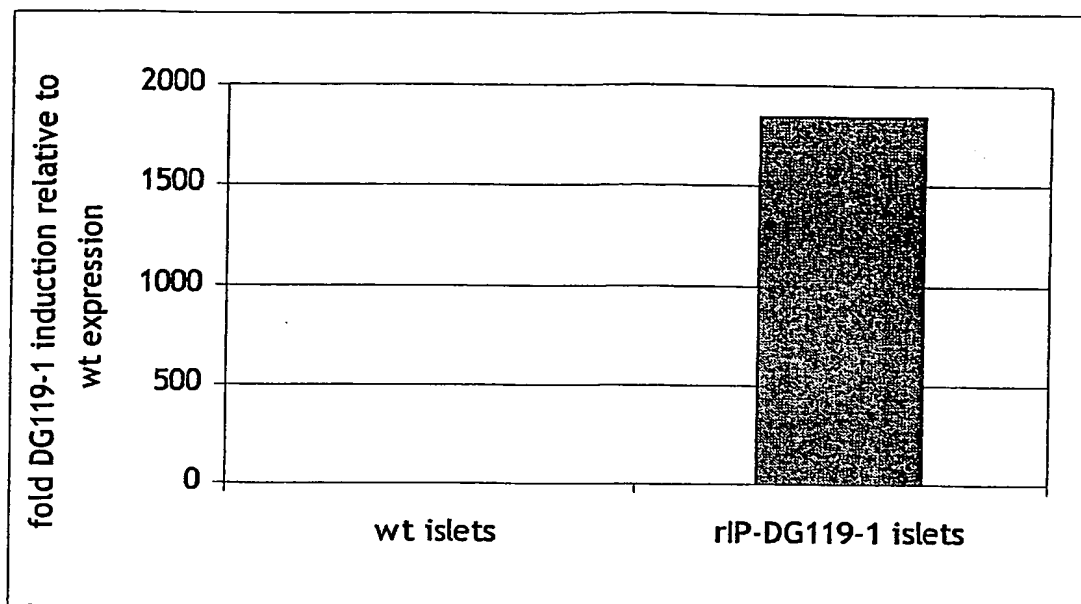


Fig. 9A

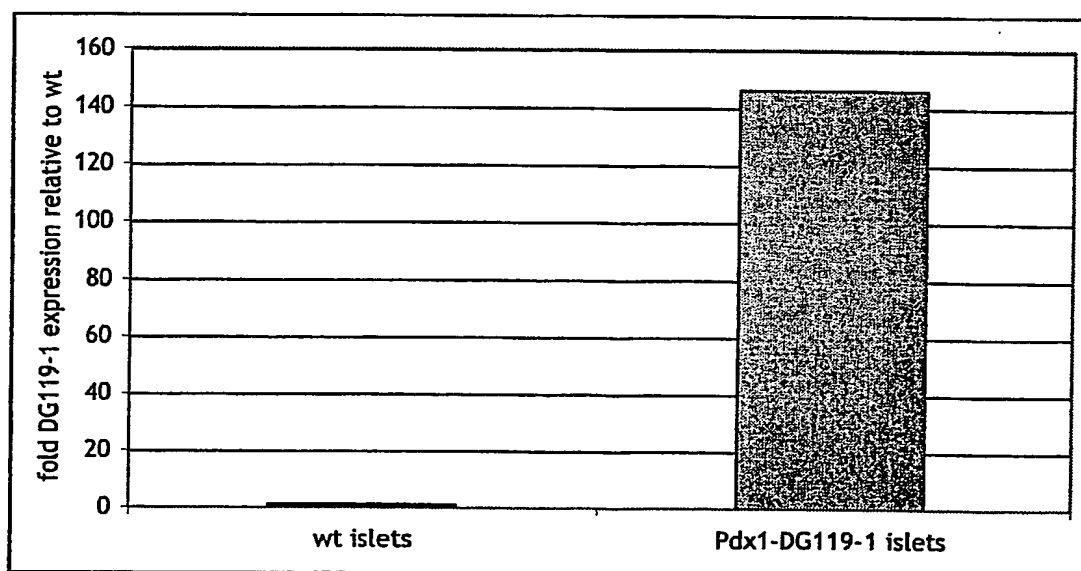


Fig. 9B

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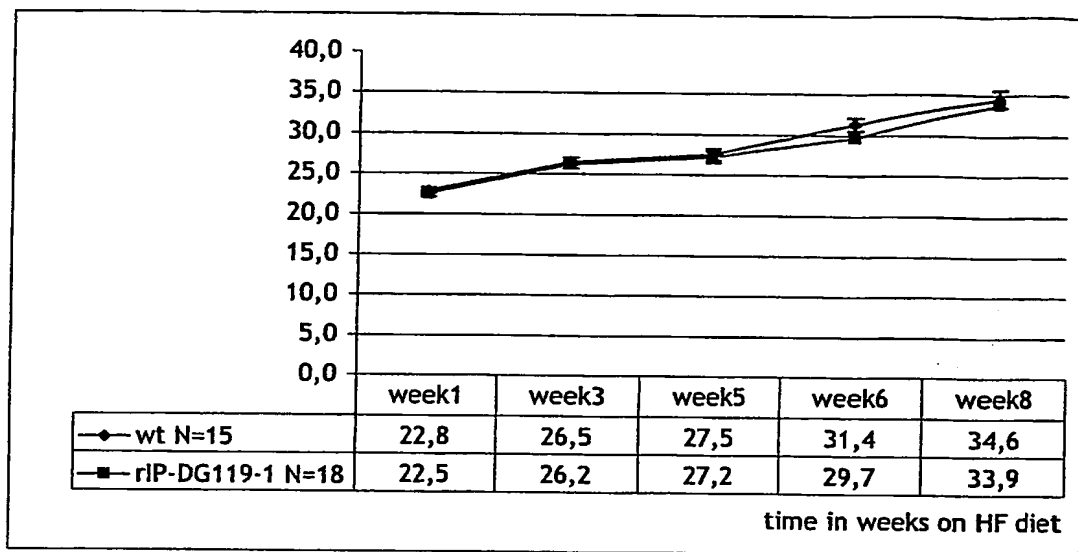


Fig. 10A

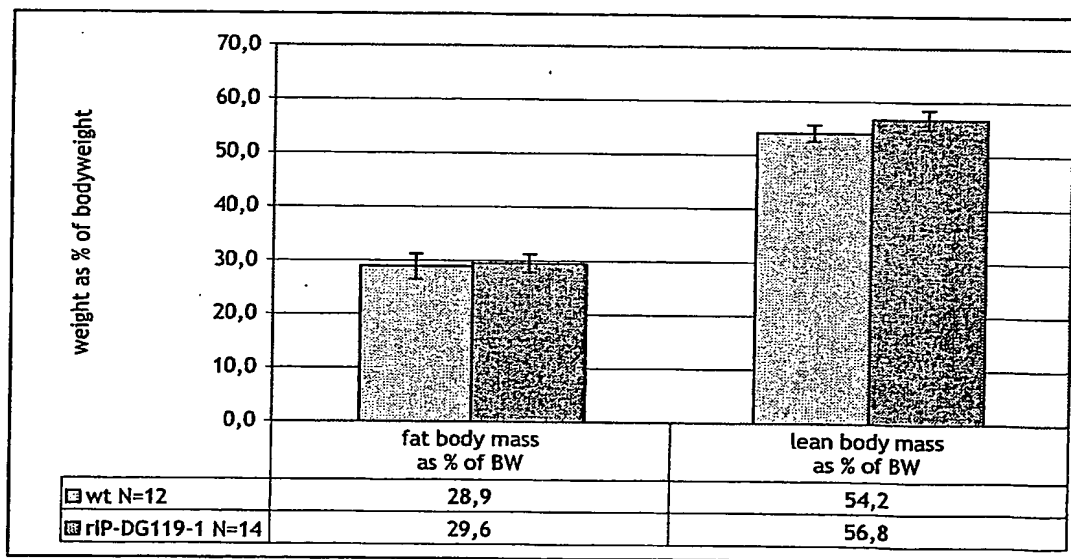


Fig. 10B

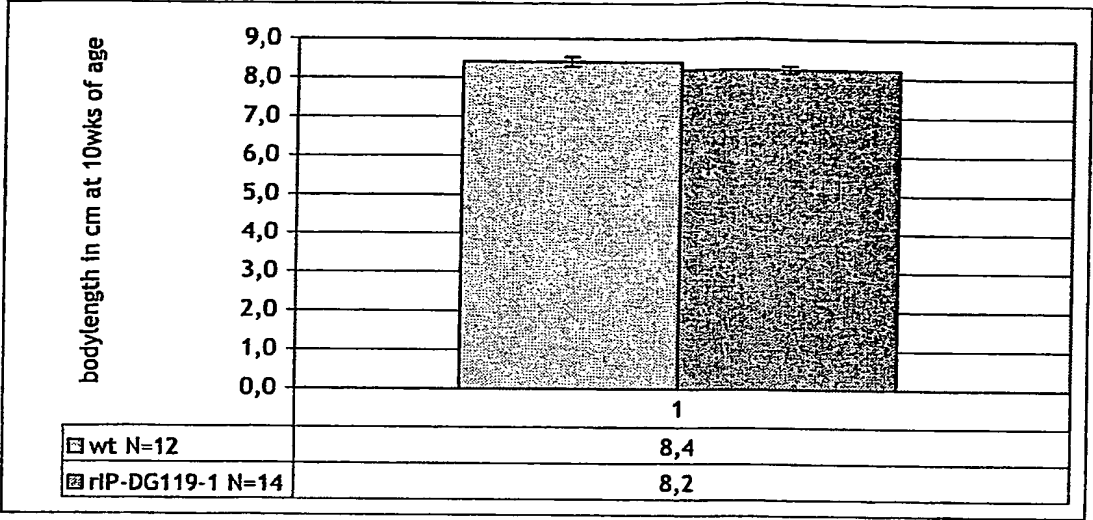


Fig. 11

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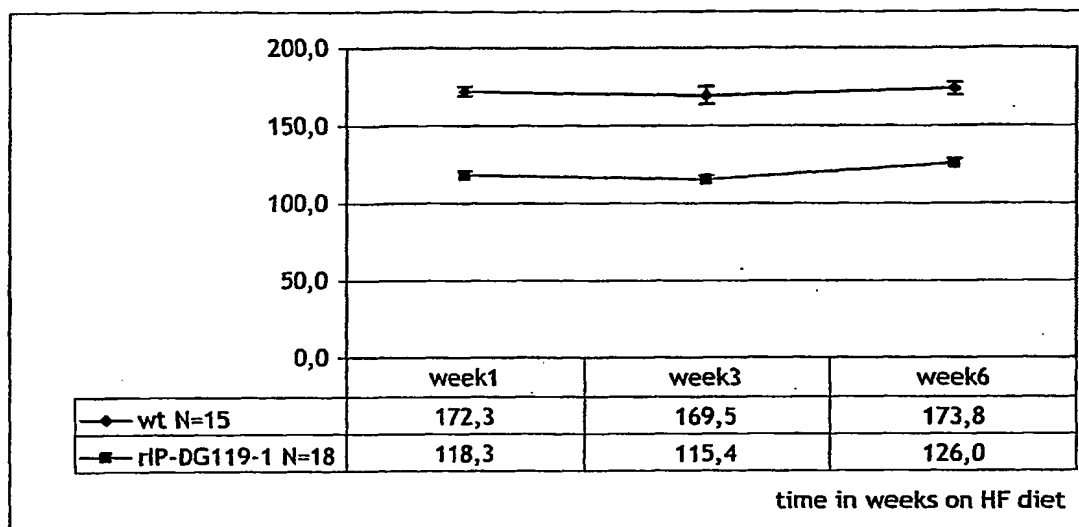


Fig. 12A

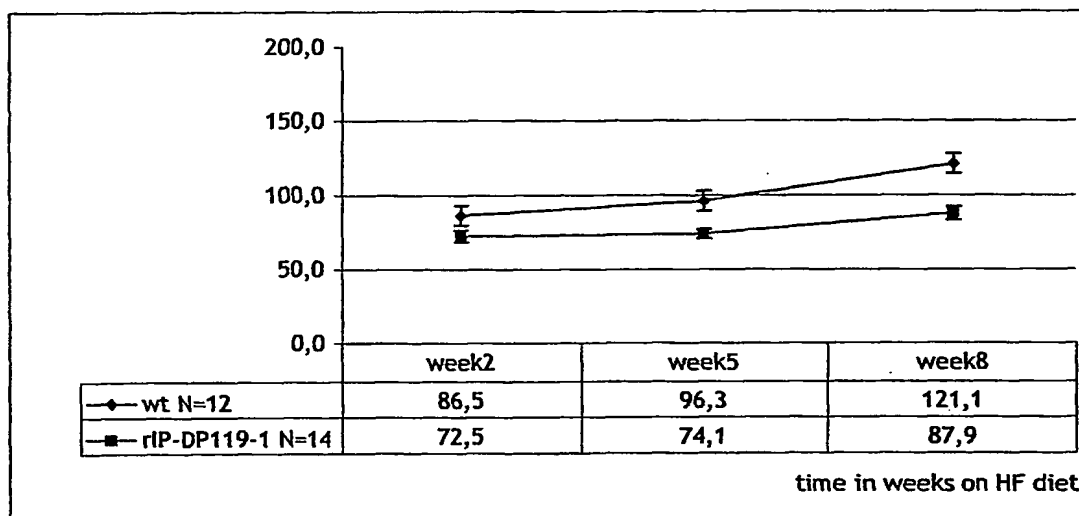


Fig. 12B

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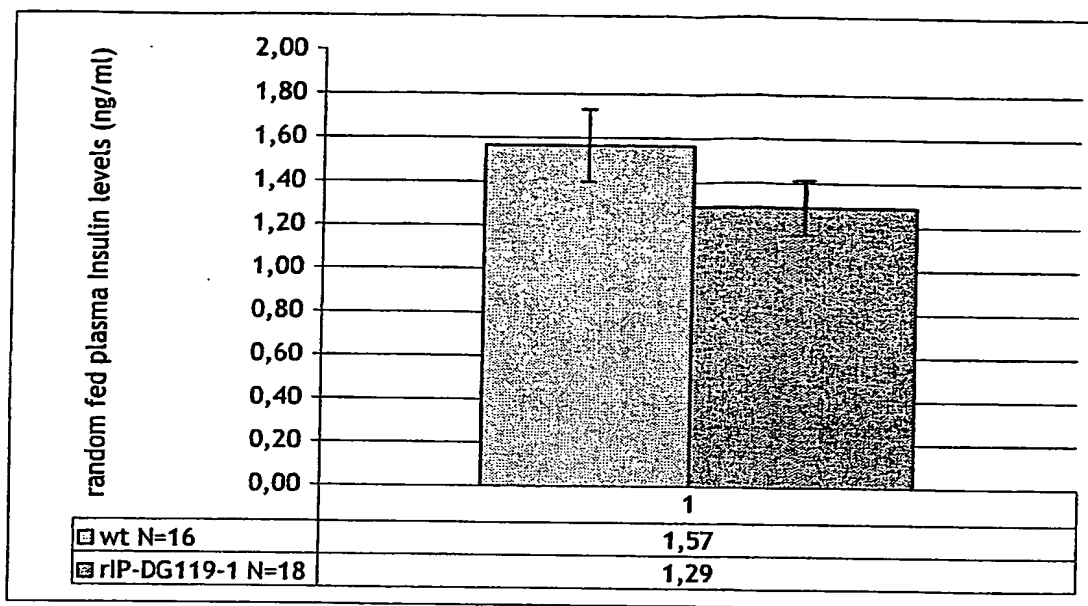


Fig. 13A

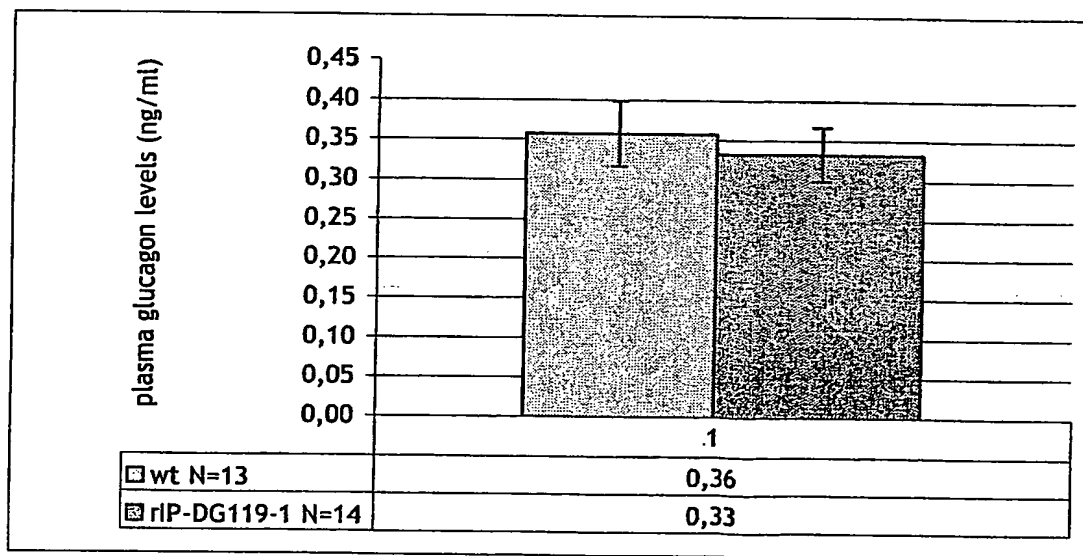


Fig. 13B

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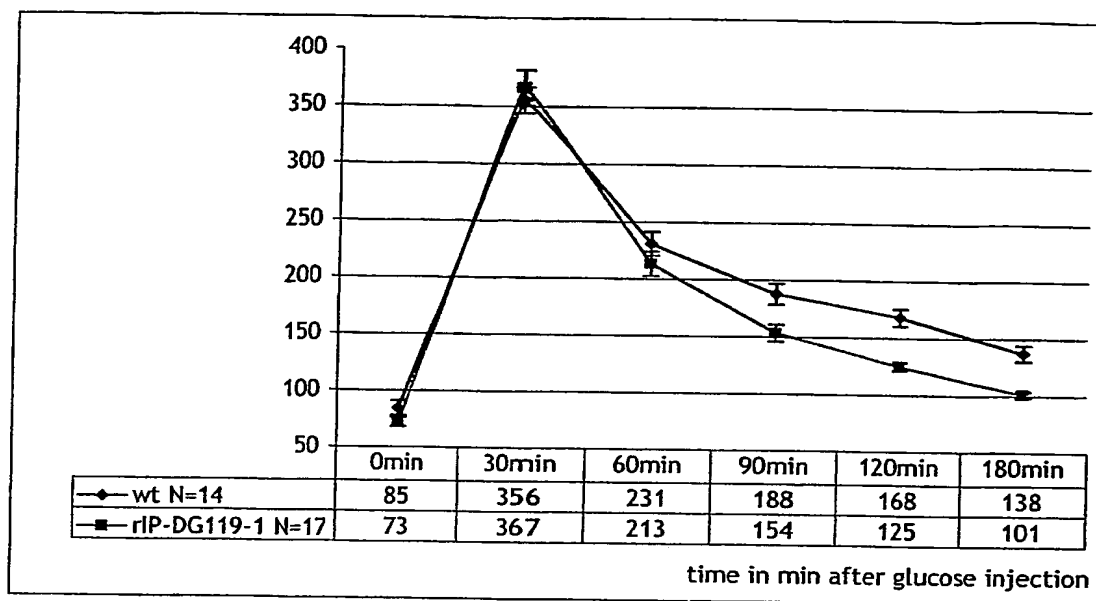


Fig. 14A

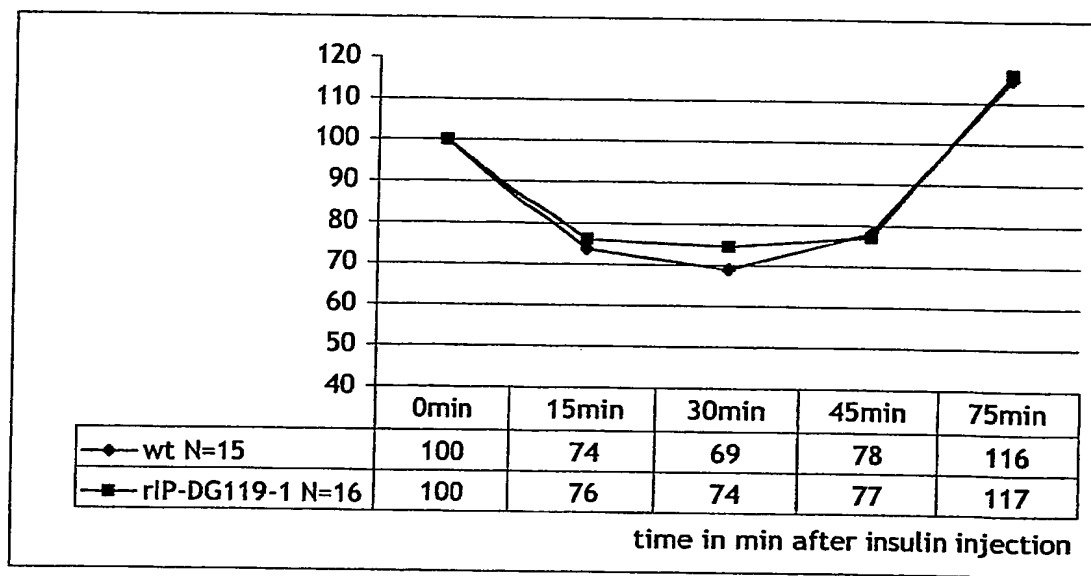


Fig. 14B

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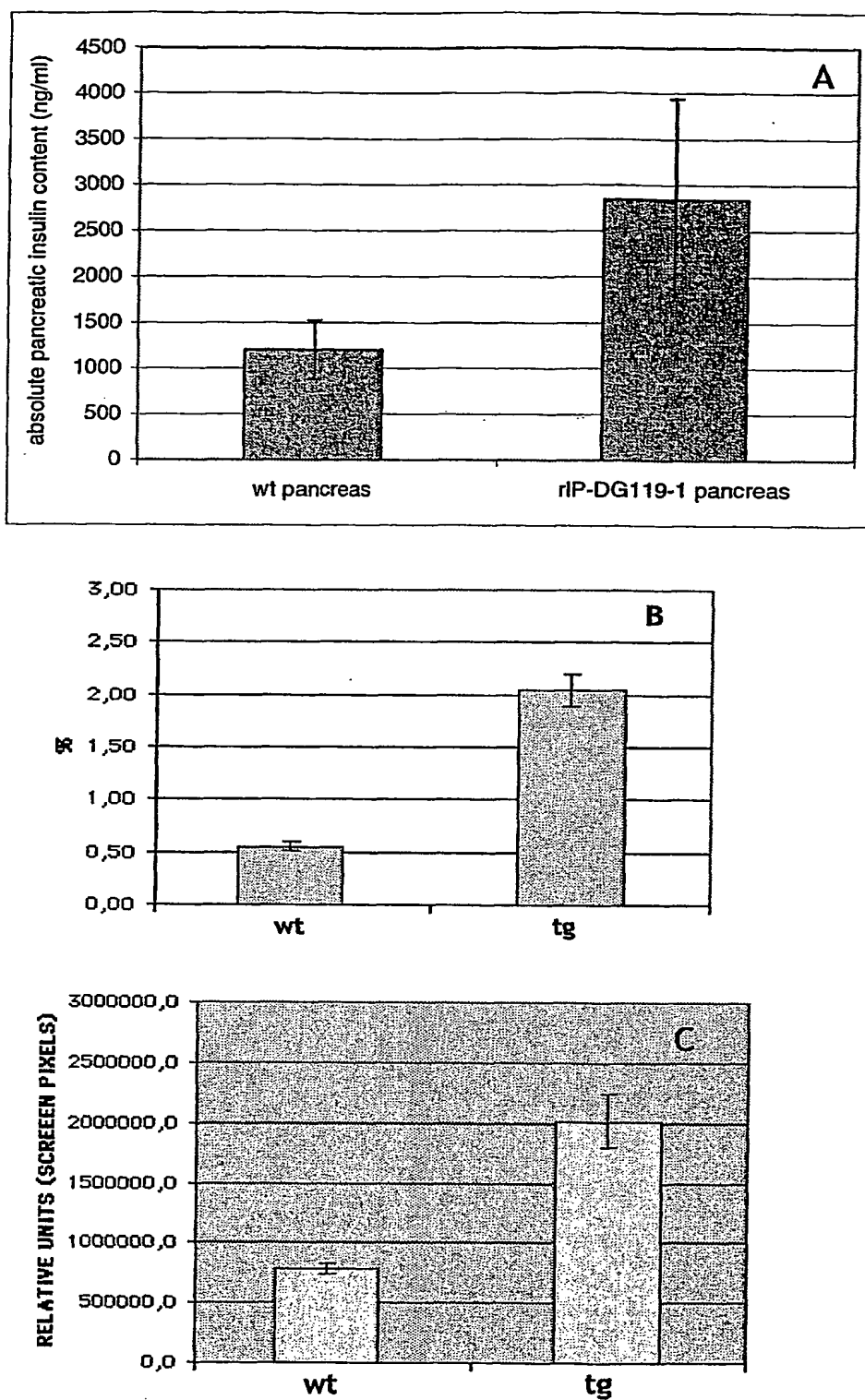


Fig. 15

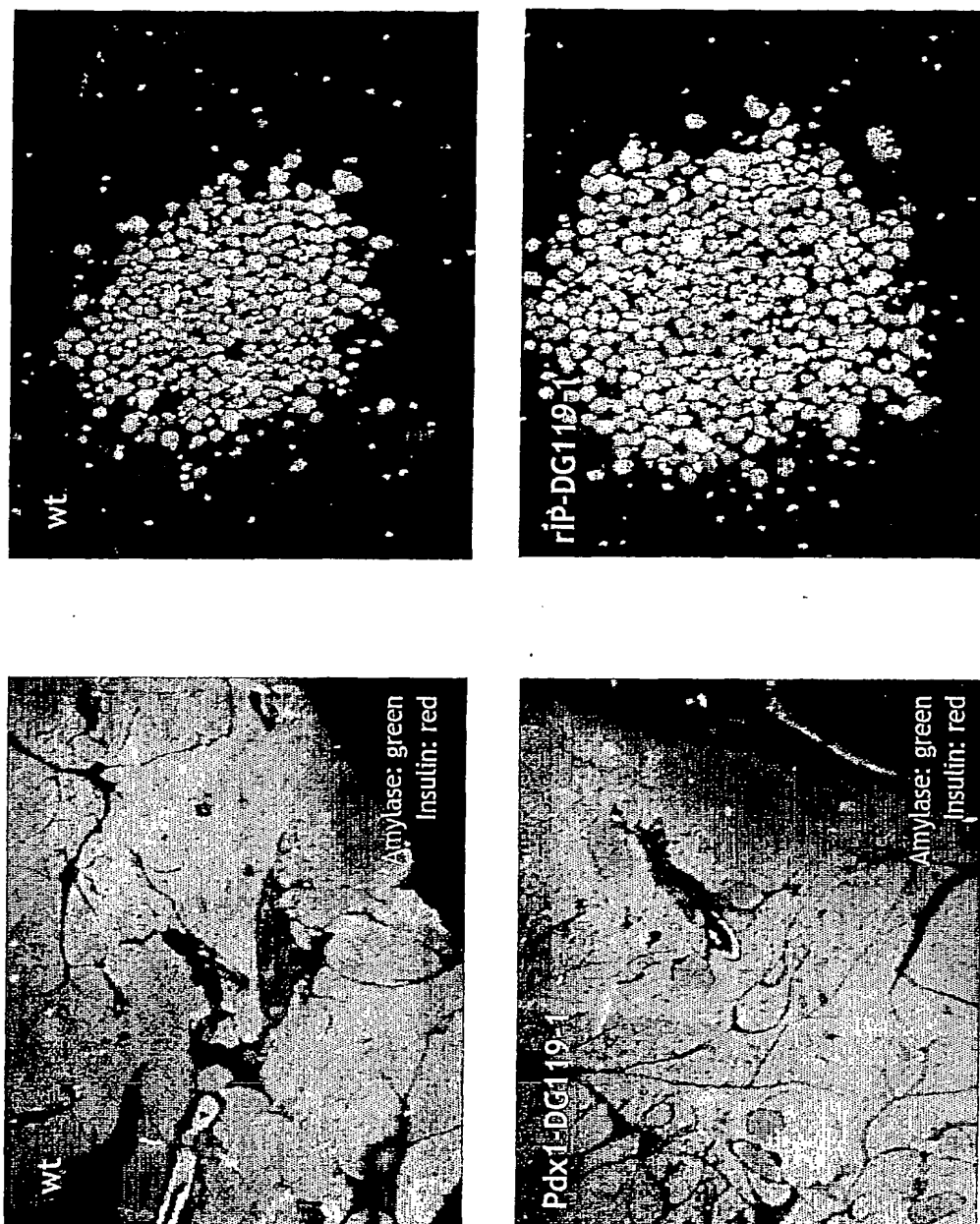


Fig. 16

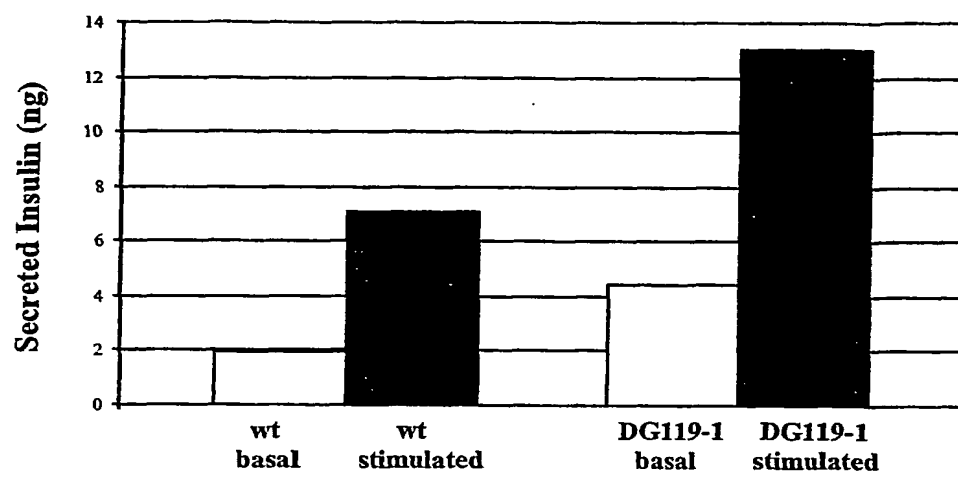


Fig. 17

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